VOLUME CONTENTS

Vol. 140 No. 1 1992

MILAN MINAROVJECH and MILAN RYBANSKÝ / Coronal Line Photometer	1
P. M. EDWIN and I. ZHELYAZKOV / Chromospheric and Coronal Heating Due to the Dissipation of Fast Magnetoacoustic Waves	7
G. THEJAPPA and M. R. KUNDU / Unusually Low Coronal Radio Emission at the Solar Minimum	19
HAIMIN WANG and HAROLD ZIRIN / Flows around Sunspots and Pores	41
DAVID M. RUST and STEVEN L. KEIL / A Search for Polarization in Ellerman Bombs	55
WANG JINGXIU and SHI ZHONGXIAN / Flare-Associated Magnetic Changes in an Active Region, I	67
HAIMIN WANG / Evolution of Vector Magnetic Fields and the August 27 1990 X-3 Flare	85
JUN-ICHI SAKAI / Prompt Particle Acceleration around Moving X-Point Magnetic Field during Impulsive Phase of Solar Flares	99
F. PELAEZ, P. MANDROU, M. NIEL, B. MENA, N. VILMER, G. TROTTET, F. LEBRUN, J. PAUL, O. TEREKHOV, R. SUNYAEV, E. CHURAZOV, M. GILFANOV, D. DENISOV, A. KUZNETSOV, A. DYACHKOV, and N. KHAVENSON / Solar Hard X-Ray and γ-Ray Bursts Observed by the SIGMA Anti-Coincidence Shield aboard GRANAT	121
A. V. STEPANOV, S. URPO, and V. V. ZAITSEV / Diagnostics of Solar Flare and Evaporated Plasma Using mm-Wave Emission	139
B. KLIEM, A. KRÜGER, and R. A. TREUMANN / Third Plasma Harmonic Radiation in Type II Bursts	149
X. MOUSSAS, J. J. QUENBY, Z. THEODOSSIOU-ESKATERINIDI, J. F. VALDES-GALICIA, A. G. DRILLIA, D. ROULIAS, and E. J. SMITH / Mean Free Paths of Energetic Particles at Very Large Heliodistances (Pioneer 11 at 20 AU)	161
R. P. KANE / Did Predictions of the Maximum Sunspot Number for Solar Cycle No. 22 Come True?	171
ROBERT M. WILSON / An Early Estimate for the Size of Cycle 23	181
SOLAR PHYSICS LETTERS:	
P. I. DUHLEV / Time Distribution of the Long-Lived Filaments in the Years 1931–1987	195

VOLUME CONTENTS

Determination of the North Direction of a Heliogram HONG-ZHANG WANG / An Explanation for the Solar Neutrino	199
Problem	203
Vol. 140 No. 2 1992	
V. MARTÍNEZ PILLET / Stray-Light Effects on the Solar Intensity Distribution	207
V. M. GRIGORYEV and S. M. LATUSHKO / E-W Motions of Large-Scale Magnetic Field Structures of the Sun	239
ELENA DZIFČÁKOVÁ / The Ionization Balance of the Fe in the Solar Corona for a Non-Maxwellian Electron Distribution Function	247
G. VAN HOVEN, Y. MOK, and J. F. DRAKE / Prominence Condensation and Magnetic Levitation in a Coronal Loop	267
C. D. C. STEELE and E. R. PRIEST / A Model for the Fibril Structure of Normal-Polarity Solar Prominences	289
HONGQI ZHANG, GUOXIANG AI, HAIMIN WANG, HAROLD ZIRIN, and ALAN PATTERSON / Evolution of Magnetic Fields and Mass Flow in a Decaying Active Region	307
R. A. M. VAN DER LINDEN, M. GOOSSENS, and A. W. HOOD / The Relevance of the Ballooning Approximation for Magnetic, Thermal, and Coalesced Magnetothermal Instabilities	317
J. LIM, S. M. WHITE, M. R. KUNDU, and D. E. GARY / The High-Frequency Characteristics of Solar Radio Bursts	343
R. A. GULYAEV and N. YA. VANYARKHA / Regularities of Variation of the Heliospheric Current Sheet Orientation during the Solar Activity Cycle	369
J. SÝKORA / The Green Corona, the Solar Wind and Geoactivity	379
SOLAR PHYSICS LETTER:	
T. ALAN CLARK, DAVID A. NAYLOR, G. J. TOMPKINS, and W. D. DUNCAN / Extension of the Solar Limb at Sub-Millimeter and Millimeter Wavelengths	393
List of Papers from Other Journals	397
Calendar	411